



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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December 26, 2001

CERTIFIED RETURN RECEIPT

7099 3400 0016 8896 4295

Bruce Mitchell  
Gold Star Stone, Inc.  
P.O. Box 62  
Oakley, Idaho 83346

Re: Second Review of Revised Notice of Intention to Commence Large Mining Operations, Gold Star Stone, Inc., Lone Pine Quarry, M/003/050, Box Elder County, Utah

Dear Mr. Mitchell:

The Division has completed the second review of your response to our initial October 19, 2001 review of your draft Notice of Intention to Commence Large Mining Operations for the Lone Pine Quarry, located in Box Elder County, Utah. The Division received this response November 19, 2001. After reviewing the information, the Division has the following comments that will need to be addressed before tentative approval may be granted. The comments listed below are from the Division's October 19<sup>th</sup> review. *Italic print denotes comments to your response. Bold & italicized comments will require additional information. Please address only the items requested in this review. You may send replacement pages to the original notice using redline and strikeout, so we can see what changes have been made. After the notice is accepted, we will then ask that you send us two copies of the complete and corrected plan. Upon final approval of the permit, we will return one complete copy of the application stamped "approved" for your records. Please provide a response to this review by January 31, 2002.*

The Division will suspend further review of the Lone Pine mine notice, until your response to this letter is received. If you have any questions in this regard please contact me, Lynn Kunzler, or Doug Jensen of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

jb

Attachment: Review

cc: Mike Ford, BLM, SLFO  
m03-50-Dec-2001-rev.doc

SECOND REVIEW OF REVISED NOTICE of INTENTION TO COMMENCE LARGE MINING OPERATIONS

Gold Star Stone, Inc.  
Lone Pine Quarry

M/003/050  
December 19, 2001

**ANY BOLDED AND ITALICIZED ITEMS NEED TO BE ADDRESSED.**

**R647-4-105 - Maps, Drawings & Photographs**

**105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)**

Please provide cross-sections of the affected area showing the present ground surface, the projected surface after mining and after reclamation. Please provide at least two cross-sections for each quarry, one north-south and one east-west through each quarry. These cross-sections should be drawn to scale for reclamation cost calculation purposes. (DJ)

*The cross-sections provided indicate the surface before and after mining but do not indicate the surface after reclamation. Please modify cross sections to reflect these changes. (DJ)*

**R647-4-106 - Operation Plan**

**106.3 Estimated acreages disturbed, reclaimed, annually.**

The plan states that no more the 20 acres will be disturbed at any one time. Maps included with the plan delineate acreage in excess of this number. For bonding purposes the plan needs to show only the areas that comprise the 20 acres alluded to in the plan. (DJ)

*The revised plan indicate that the ultimate disturbance will be 22.5 acres The operators response satisfies the regulatory requirements for this section of the rule. (DJ)*

The listing included with the plan shows acreages assigned to various mining activities. It is stated that these will be the acreages based on the 20 acres of development at any one time, and has shown acreages assigned to various features created during mining. Are these numbers generic or are they a result of a review of the present plan? The features included in the list should be shown on a site facilities map, so they can be readily identified. (DJ)

*The maps included with the plan have been revised to show the maximum extent of the disturbance. Operator's response satisfies the regulatory requirements of this section of the rule. (DJ)*

This listing shows a total of 2.5 acres of the site utilized for on-site processing and storage. The maps included with the application reflects ~4 acres of processing areas. Please clarify which is the correct acreage figure. (DJ)

*The revised maps have been changed to show the correct acreage. Operator's response satisfies the regulatory requirement for this section of the rule. (DJ)*

The list also indicates that overburden/waste dumps will comprise 7.95 acres of the total 20 acre disturbance. The maps included in the plan show that the majority of projected five-year expansion will be these features. A delineation of pits and waste dumps on the quarry maps will need to be made to allow for interpretation of these features. (DJ)

*Pit and waste dump outline have been included on the revised maps. Operator's response satisfies the regulatory requirement for this section of the rule. (DJ)*

In order to properly prepare a bond for this area, maps included in this application need to show the location and size of existing and proposed dumps. Please describe the approximate height and capacity of the dumps to be constructed. (DJ)

*Cross-sections included in the plan indicate the dump height. Operator's response satisfies the regulatory requirement for this section of the rule. (DJ)*

**106.5 Existing soil types, location, amount**

Please provide an estimate of the amount of soil that has been salvaged and the amount of soil material that can be salvaged over the life of the project. Please note, the Division is still awaiting the soil analysis (lab report). (LK)

*A soils analysis was submitted with this response. However, an estimate of the volume of soil that can be salvaged was not provided.*

*Please provide an estimate of the amount (volume) of soil materials that can be salvaged over the life of this project. (LK)*

**106.7 Existing vegetation - species and amount**

The operator has provided an estimate of the percent vegetation ground cover of 60%. The operator has requested that the Division assist in finalizing the vegetation information (i.e. species identification). This can be done during the next site visit. Since the 60% value seems reasonable, no further information is needed at this time. (LK)

*No response was needed for this comment.*

**R647-4-107 - Operation Practices**

**107.5 Suitable soils removed & stored**

As the waste dumps are expanded at each quarry, soils will need to be harvested from the areas that will be covered by these features. (LK)

*This comment was not addressed; the operator will need to commit to salvaging soils prior to expanding the waste dumps. (LK)*

*The topsoil and overburden piles shown on map C-1 are not shown on Map C-2. Please explain what happened to these materials. Have they been relocated (and if so, to where)?*

*Have they been used for reclamation (and if so, what area)? (LK)*

**107.6 Concurrent reclamation**

Please show areas that will be concurrently reclaimed and the sequence of reclamation as mining progresses, to assure the maximum projection of no more than 20 acres will be disturbed at any one time. (DJ & LK)

*Concurrent reclamation is not shown on revised maps. However, the amount of acreage to be disturbed has been revised to show a maximum of 22.5 acres. (DJ)*

**R647-4-110 - Reclamation Plan**

**110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed**

Please identify which highwalls will be reduced to a 3:1 slope and which will remain at a 45 - degree slope. (DJ)

*Please identify these areas on the map. (DJ)*

The Division will require a letter from the landowner stating that he wishes the improved sections of the access road to remain after mining is completed, before we will consider a request to leave the road. (LK & DJ)

*Please furnish the requested letter. (DJ)*

**R647-4-111 - Reclamation Practices**

**111.8 All roads & pads reclaimed**

See comments under R647-4-110.2. (LK)

**R647-4-113 - Surety**

A reclamation surety estimate cannot be calculated by the Division until the concerns expressed in this review have been addressed.

*The operator needs to calculate a draft reclamation cost estimate for this plan. Attached is a reclamation cost worksheet to assist you in developing the draft reclamation cost estimate. (DJ)*

# RECLAMATION SURETY ESTIMATE

Mine Operator

mine name

DOGM file number

Prepared by Utah State Division of Oil, Gas & Mining

-This estimate uses a D8 size dozer for most earthwork

Print block named "d8est" for the estimate page & "d8notes" for the notes page

last revision

08/02/00

filename M000-000.WB2

page "estimate D8"

County

Note: actual unit costs may vary according to site conditions last unit cost update 2-Aug-2000

-Amount of disturbed area which will receive reclamation treatments = 0.0 acres

-Estimated total disturbed area for this mine = 0.0 acres

Activity	Quantity	Units	\$/unit	\$	Note
Safety gates, signs, etc. (mtls & installation)	0	sum	200	0	(1)
Demolition of buildings & facilities	0	CF	0.24	0	(2)
Debris & equipment removal - trucking	0	trips	50	0	(3)
Debris & equipment removal - dump fees	0	ton	55	0	(4)
Debris & equipment removal - loading trucks w/FE loader	0	hours	166	0	(5)
Demolition & debris removal - general labor	0	hours	15	0	(6)
Regrading facilities areas (1 ft depth)	0.0	acre	502	0	(7)
Regrading waste dump slopes	0	CY	0.50	0	(8)
Ripping waste dump tops	0.0	acre	234	0	(9)
Ripping stockpile & compacted areas	0.0	acre	234	0	(9)
Ripping pit floors	0.0	acre	234	0	(9)
Ripping pit access roads	0.0	acre	234	0	(9)
Creating safety berms or barriers around highwalls	0	LF	0.16	0	(10)
Ripping access roads - dozer	0.0	acre	234	0	(9)
Regrading access roads - dozer	0.0	acre	502	0	(7)
Sidecast mtl replacement on steep roads- trackhoe	0	LF	1.09	0	(11)
Surface drainage restoration or construction	0	LF	0.16	0	(10)
Topsoil replacement - dozer	0	CY	0.50	0	(12)
Topsoil replacement - scraper	0	CY	1.15	0	(13)
Topsoil replacement - truck & FE loader	0	CY	2.60	0	(14)
Mulching (2 ton/acre alfalfa)	0.0	acre	160	0	(00)
Fertilizing ( 100 lb/acre diammonium phosphate)	0.0	acre	90	0	(00)
Composted manure (10 ton/acre)	0.0	acre	300	0	(00)
Broadcast seeding	0.0	acre	225	0	(00)
Drill seeding	0.0	acre	205	0	(00)
Hydroseeding	0.0	acre	800	0	(00)
General site cleanup & trash removal	0.0	acre	50	0	(00)
Equipment mobilization	0	equip	1000	0	(00)
Reclamation Supervision	0	days	386	0	(15)
		Subtotal		0	
10% Contingency				0	
		Subtotal		\$0	
Escalate for 5 years at 3.12% per yr				0	
		Total		\$0	
Rounded surety amount in yr 2006-\$				\$0	
Average cost per disturbed acre =				ERR	

Mine Operator

mine name

DOGM file number

Prepared by Utah State Division of Oil, Gas & Mining

last unit cost update

last revision

08/02/00

filename M000-000.WB2

page "estimate D8"

County

08/02/00

DOGM lump sum assumed

*Means Heavy Construction Cost Data 2000, 02220-100-0100, mix of bldg. types, avg., excluding dump fees*

*Means 2000, 02225-730-5100, bldg demo, rubbish handling, \$0.50/CY permile for >8CY truck; assumed 100 miles round trip*

*Means 2000, 02225-740-0100, dump charges, typical urban city, tipping fees only, bldg construction mtl's*

*Rental Rate Blue Book 3Q/00, Cat 988B, 7CY \$85.64hr+\$39.60/hr, & Means 2000, Crew B-10U, loading trucks only \$40.87*

*DOGM assumed wage for unskilled general labor*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 100 ft push*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, used avg vol 0.5CY/LF-berm*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, multi shank rippers, speed 1.0 mph*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth*

*Contractor's actual costs, 1991 at E/053/012 escalated to 2000-\$, Cat 225 Excavator, 20 ft wide road*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 50 ft push, used avg vol 0.5CY/LF-berm*

*Means 2000 & Blue Book 3Q/00: Cat D8N, U, mtl 2550 lb/CY, 100 ft push*

*Means 2000 & Blue Book 3Q/00: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,*

*Means 2000 02320-200-2030: earthwork, hauling excavated or borrow material, off highway hauler, 22 CY, 1 mile round trip, no loading included*

*DOGM general estimate - mulching*

*DOGM general estimate - fertilizing*

*DOGM general estimate - manure \$16/ton delivered, \$14 ton/acre spreading*

*DOGM general estimate - broadcast seeding*

*DOGM general estimate - drill seeding*

*DOGM general estimate - hydroseeding*

*DOGM general estimate - site cleanup & trash removal*

*DOGM general estimate - equipment mobilization*

*Means 2000, 01300-700-0180, project manager, minimum \$1,930/wk*